

61G17-6.004 Topographic Survey, Map, and Report.

(1) Topographic surveying and mapping by field methods shall meet general provisions applicable to all surveys and maps as set out in Rule 61G17-6.003, F.A.C.. A minimum of two site benchmarks on or near the survey shall be established and indicated upon the survey map.

(2) Line-drawn (Vector) Topographic Features by Photogrammetric Methods

(a) **REGULATIONAL OBJECTIVE:** The public must be able to rely on topographic information contained on a survey map produced by photogrammetric methods and must be able to correctly interpret the intended map coverage.

(b) **Intended Features.** The surveyor and mapper shall devise a method of reporting which topographic features were intended to be surveyed and mapped, the style of cartographic representation employed for each, and the degree of intended completeness in the surveying and mapping of each feature. A sample method of reporting is as follows:

Cartographic Representation Intended Completeness

Intended Feature	Represented by a symbol	Represented to scale	All	Some (Explain)
Roads and Trails	center symbol	edges to scale		
Buildings	symbol used	edges to scale (roof or wall line)		
Streams & Lakes	center symbol	edges to scale		
Railroads	center symbol	edges to scale		
Vegetated Areas	fill symbol	edges to scale		
Fence Lines	center symbol	edges to scale		
Driveways	symbol	edges to scale		
Sidewalks and Slabs	---	edges to scale		
Utility Poles	symbol	edges to scale		
Manholes	symbol	edges to scale		
Catch Basins	symbol	edge?		
Signs	symbol	edges to scale		
Spot Elevations	label	---		
Contours	---	to scale		

(c) **Obscured Areas.** Features in obscured areas where the desired points or surfaces being mapped are not clearly visible on source images shall be clearly labeled on the map as "interpolated" or "estimated" through the use of notes and shall be depicted graphically clearly different from other surveyed features.

(d) **Responsibility Clearly Stated.** The responsibility for all mapped features must be clearly depicted on any map or report signed by a Florida licensed surveyor and mapper. In the case that features surveyed by the signing surveyor and mapper have been integrated with features surveyed by others, then the full extent of responsibility shall be clearly depicted on the map or report, and the signing surveyor and mapper shall include in the map or report an assessment of the quality and accuracy of all mapped features delivered.

(3) Image (Raster) Maps

(a) **REGULATIONAL OBJECTIVE:** The public must be able to rely on surveys and maps presented in image form, digital or graphical, where coordinate positions of mapped features on a recognized coordinate system may be extracted from the image.

(b) The survey and map report must contain a list of control points employed in geo-referencing

the image along with the source of control positions used.

(c) Feature accuracies shall be stated in a manner consistent with the general survey and map accuracy provisions of Rule **61G17-6.003(1)(f)**.

Specific Authority 472.008, 472.027 FS.

Law Implemented 472.027 FS.

History—New 9-1-81, Formerly 21HH-6.04, Amended 12-18-88, Formerly 21HH-6.004, Amended 12-25-95, 5-13-96.